



MARKED-UP VERSION SHOWING CHANGES MADE TO CLAIMS

1. (Reiterated:) A method for conducting chemical reactions between a solution of a chemical reactant and an array of functionalized binding sites on a support surface comprising adding the solution of chemical reactant to the functionalized binding site in an amount where the solution of chemical reactant at each binding site is separate from the solution of chemical reactant at other binding sites by surface tension.

Please cancel Claims 2-17.

Please add following new Claims 18-27.

18. A solid support comprising a support surface with an array of functionalized sites wherein a solution at a functionalized site is separated from solutions at other functionalized sites by surface tension.

19. The solid support of claim 18 wherein said support surface has $10-10^4$ functionalized sites per cm^2 .

20. The solid support of claim 18 wherein said functionalized site is about 50-2000 microns in diameter.

21. The solid support of claim 18 wherein said support surface is glass.

22. The solid support of claim 18 wherein said support surface is selected from the group consisting of nylon, polyethylene, polypropylene, polystyrene and polytetrafluorethylene.

23. The solid support of claim 18 wherein the area of the support surface of the functionalized site has a higher surface tension relative to the support surface surrounding the functionalized site.

24. The solid support of claim 18 wherein said functionalized site provides attachment to a nucleic acid.

25. The solid support of claim 18 wherein said functionalized site provides attachment to a peptide.

26. The solid support of claim 18, 24 or 25 wherein said functionalized site provides a covalent attachment.

27. The solid support of claim 18, 24 or 25 wherein said functionalized site provides a non-covalent attachment.



Application No.: 09/715,426
Attorney Docket No.: 05871.0002.CNUS05

**MARKED UP VERSION SHOWING CHANGES MADE IN THE
SPECIFICATION**

In the Specification:

Paragraph beginning at page 2, line 4:

[This is a continuation-in-part of U.S. Patent Application Serial No. 07/754,614 filed September 4, 1991, pending,] This is a continuation of U.S. Patent Application Serial No. 09/314,456, filed May 18, 1999, which is a continuation of U.S. Patent Application Serial No. 08/465,761, filed June 6, 1995 (Now U.S. Patent No. 5,985,551), which is a continuation of U.S. Patent Application Serial No. 08/068,540, filed May 27, 1993 (now U.S. Patent No. 5,474,796), which is a continuation-in-part of U.S. Patent Application Serial No. 07/754,614, filed September 4, 1991, abandoned.

Paragraph beginning at page 4, line 25;

The preferred siloxane reaction product of the present invention is [tetradafuoro-] tridecafluoro-1,1,2,2,-tetrahydrooctyl siloxane. In Figure 2A, the hatched lines are the solid support, "S1" represents a first exposed support surface site, "S1-F" is a hydrophobic fluoralkylsilane site, and "S1-OH" is a derivatized hydrophilic binding site.